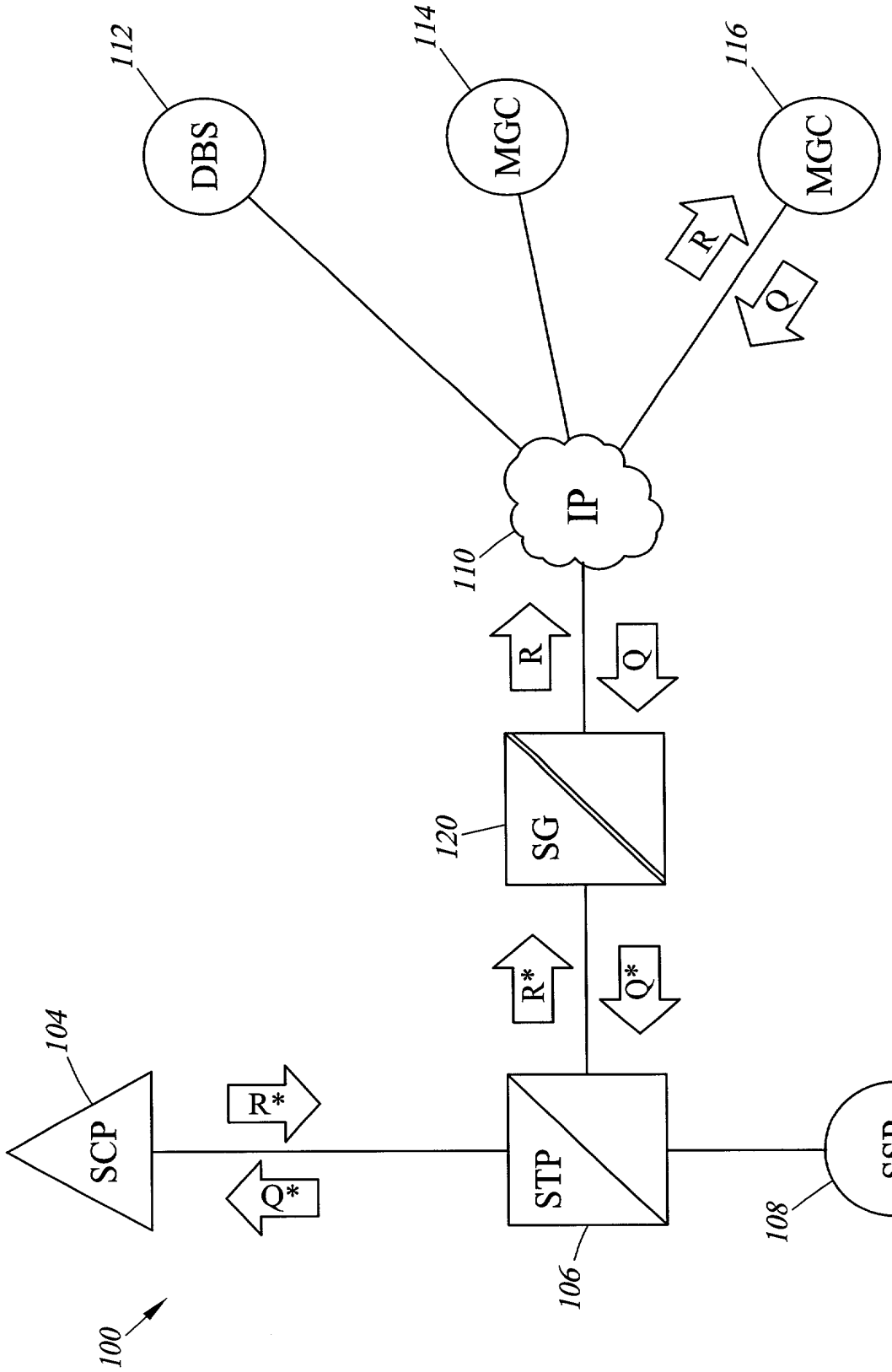

FIG. 1
(PRIOR ART)

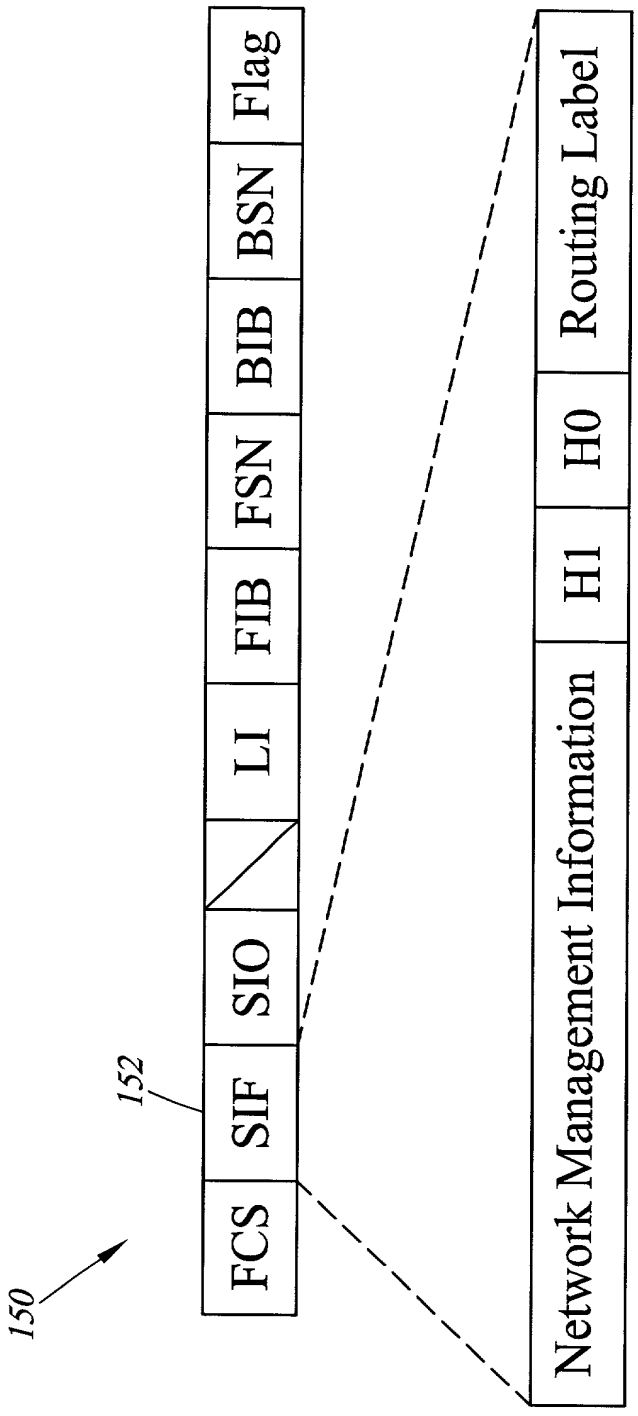

FIG. 2
(PRIOR ART)

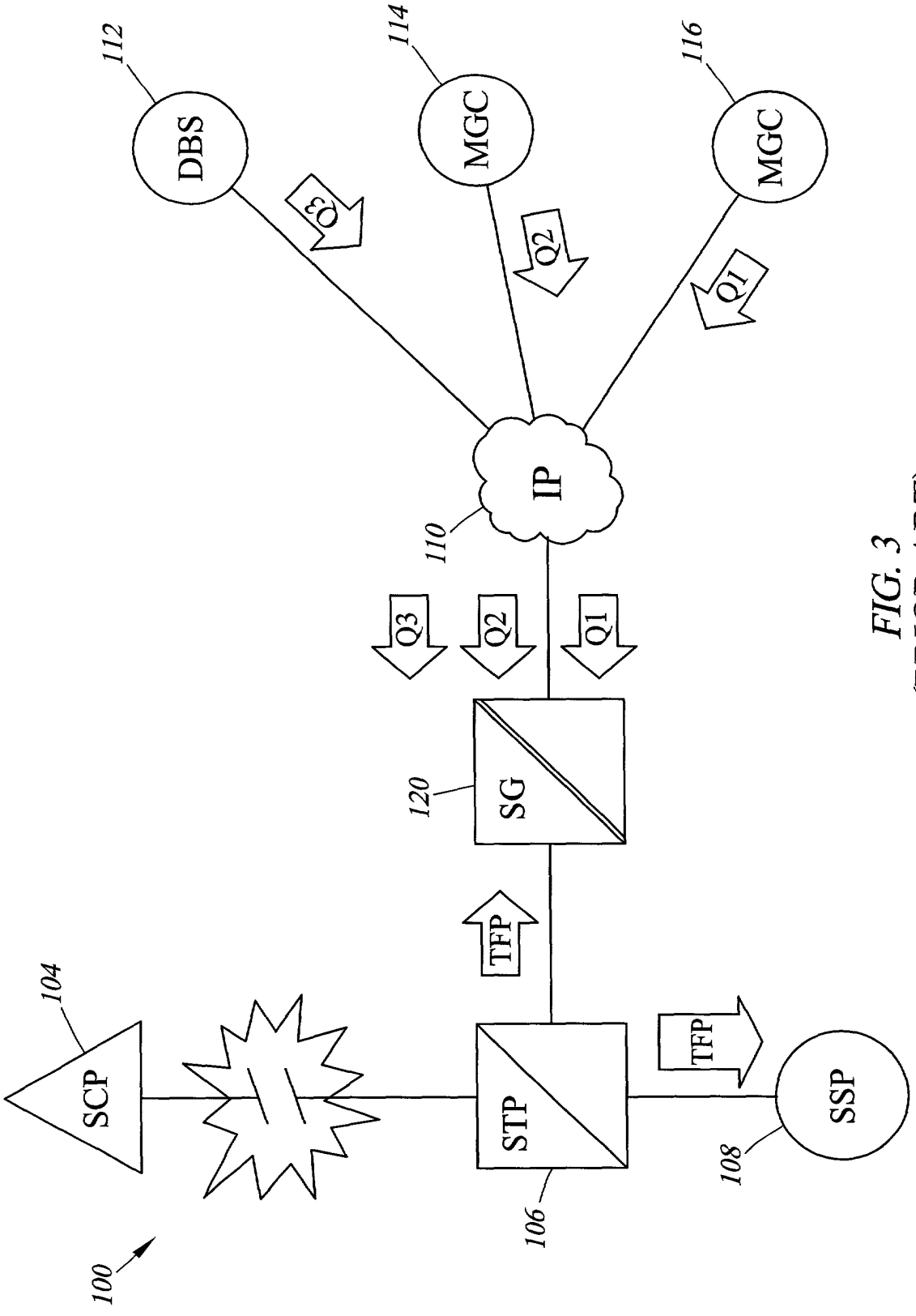

FIG. 3
(PRIOR ART)

Title: Methods and Systems for Providing Converged Network Management Functionality in a Gateway Routing Node
Applicant(s): Brendes et al.
Serial No.: 09/770,316

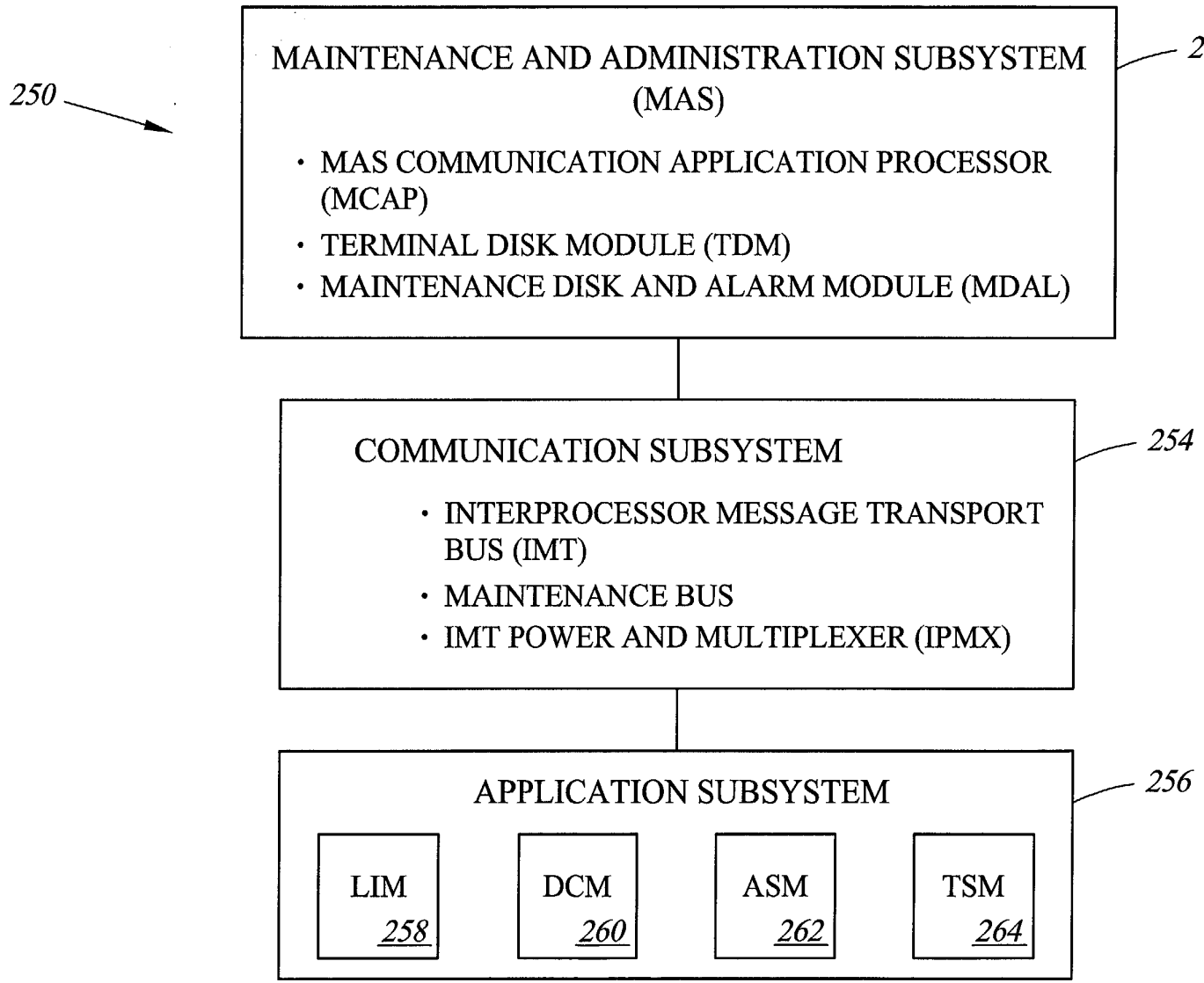

FIG. 4
(PRIOR ART)

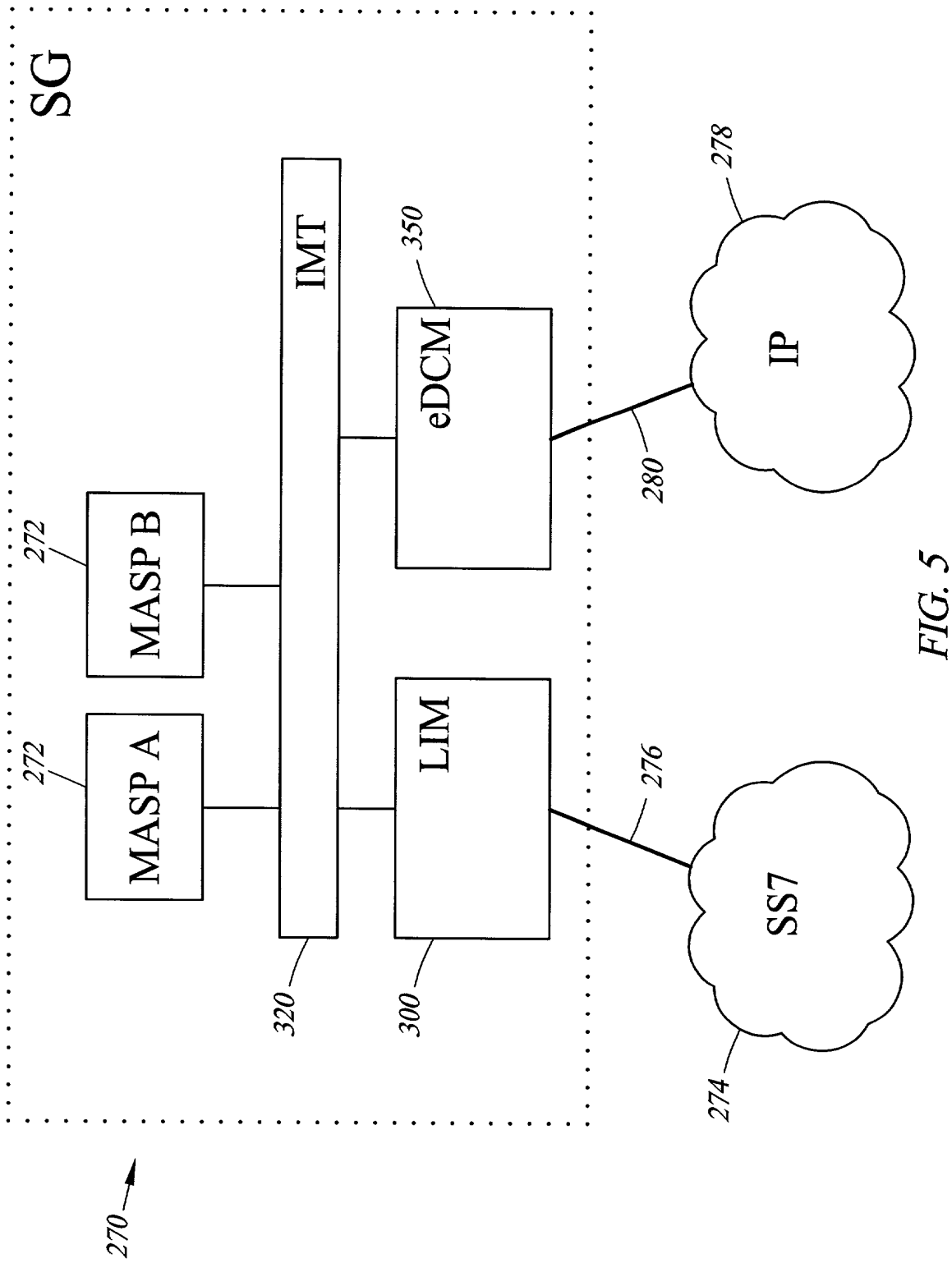
SG
IMT
350
278
eDCM
IP
280
272
MASP B
272
MASP A
LIM
276
SS7
320
300
274
270

FIG. 5

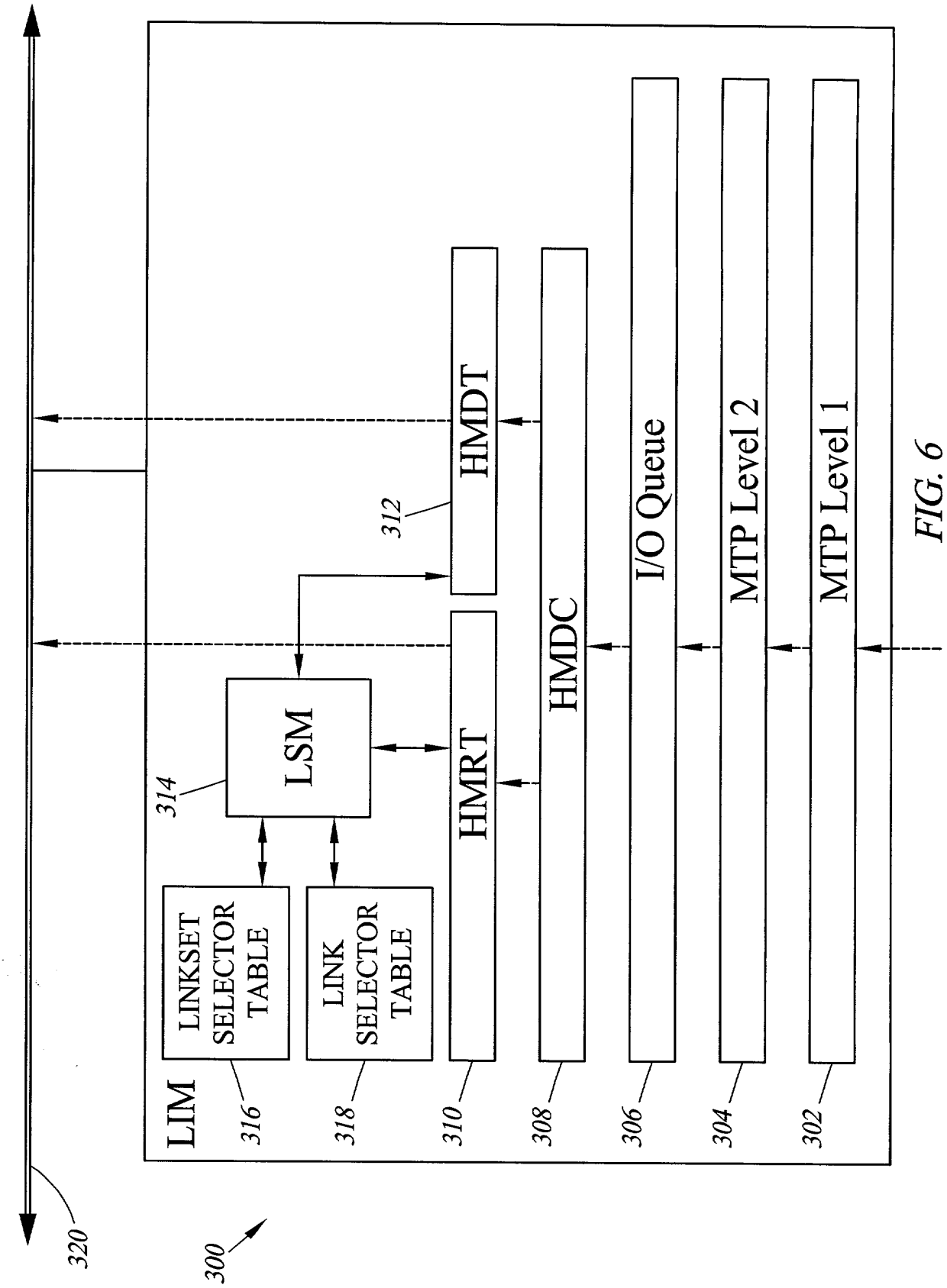
LIM
LINKSET SELECTOR TABLE
LINK SELECTOR TABLE
LSM
HMRT
HMDC
HMDT
I/O Queue
MTP Level 2
MTP Level 1
300
302
304
306
308
310
312
314
316
318
320

FIG. 6

TOT290 "9TE07260

316

LINKSET SELECTOR TABLE					
Key(s)	DATA FIELDS				
322 / DPC	324 / ROUTE COST	326 / LINKSET STATUS	328 / ADJACENT STATUS	330 / OVERALL STATUS	332 / LINKSET NAME
6-1-1	10	A	A	A	LS1
6-1-1	20	P	A	P	LS2
6-1-1	30	A	A	A	LS3
7-1-1	10	A	P	P	LS4
7-1-1	20	A	A	A	LS5
7-1-1	30	A	A	A	LS6

318

LINK SELECTOR TABLE			
Key(s)		DATA FIELD	
336 / LINKSET NAME	338 / LINK	340 / IMT / CARD ADDRESS	342 / LINK STATUS
LS1	0	1305	A
LS1	1	1307	A
LS1	2	1305	A
LS2	0	1500	U
LS2	1	1505	U
LS2	2	2300	U

FIG. 7

Title: Methods and Systems for Providing Converged Network Management Functionality in a Gateway Routing Node
Applicant(s): Brendes et al.
Serial No.: 09/770,316

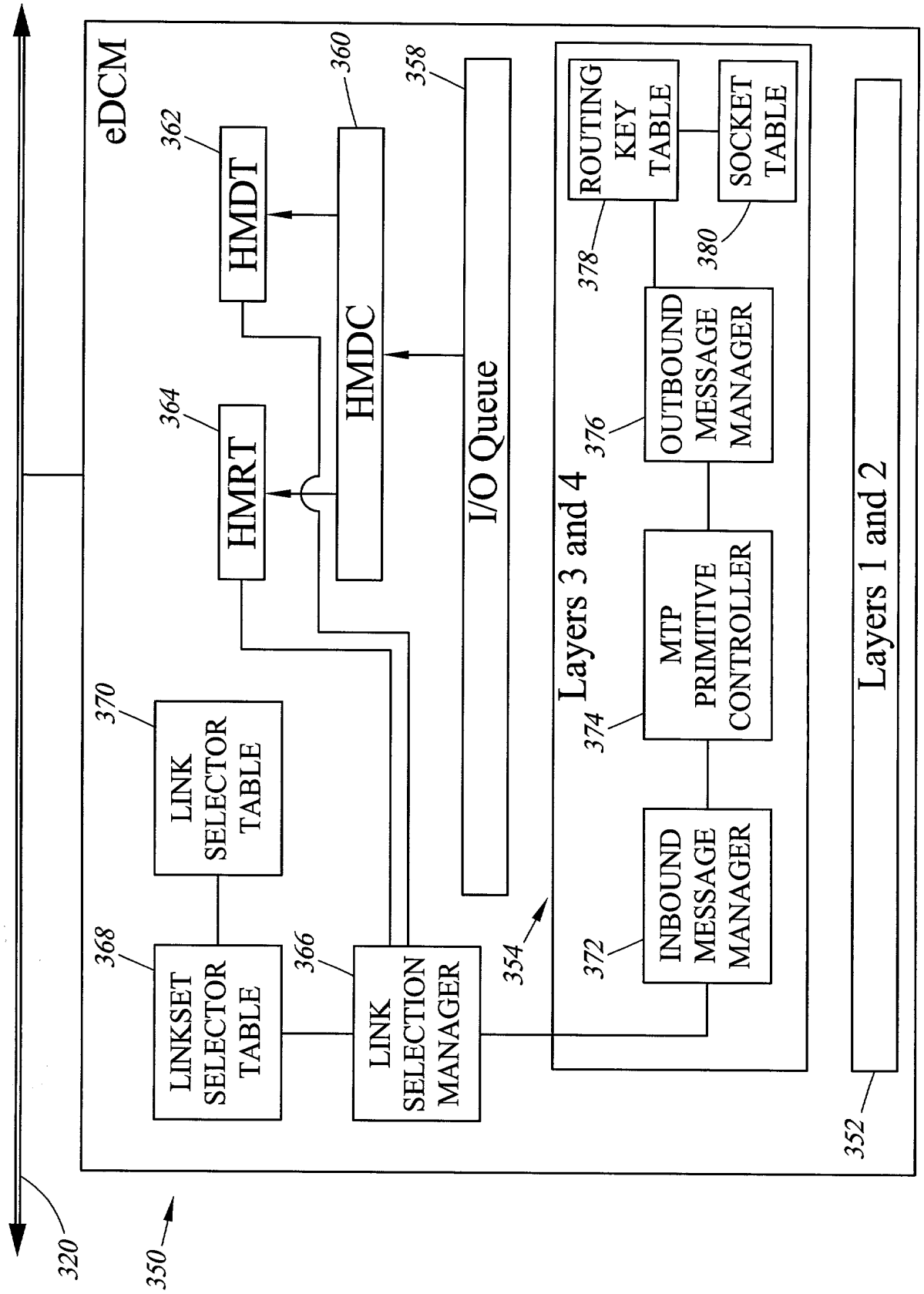
320
350
eDCM
362
HMDT
360
HMDC
358
I/O Queue
364
HMRT
370
LINK SELECTOR TABLE
368
LINKSET SELECTOR TABLE
366
LINK SELECTION MANAGER
354
Layers 3 and 4
372
INBOUND MESSAGE MANAGER
374
MTP PRIMITIVE CONTROLLER
376
OUTBOUND MESSAGE MANAGER
378
ROUTING KEY TABLE
380
SOCKET TABLE
Layers 1 and 2
352

FIG. 8

DOT290 "9TE07760

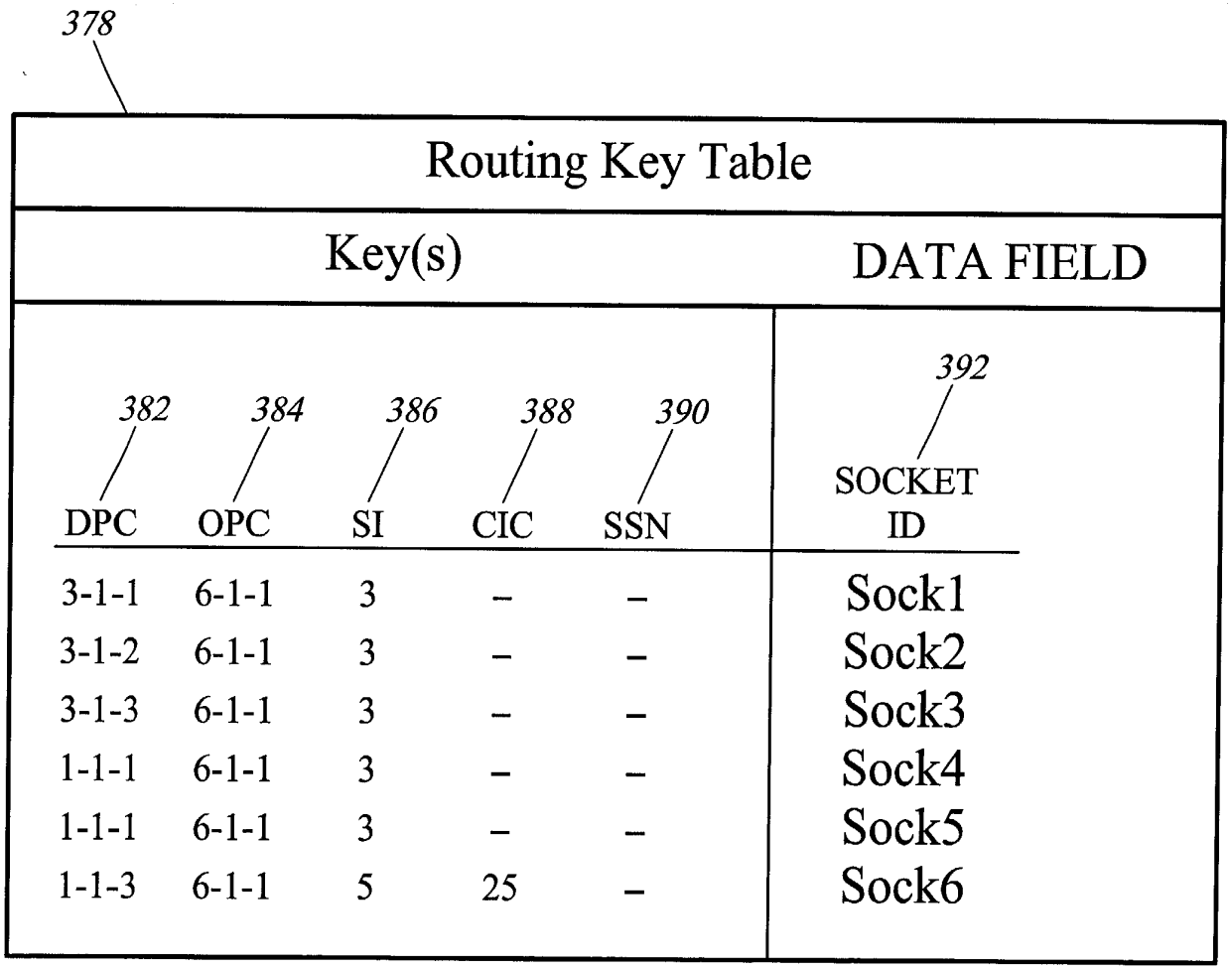

FIG. 9

TOT290 "STE07760

380

Socket Table					
Key	DATA FIELDS				
394	395		396		397
SOCKET ID	------Local-----		------Distant----		SOCKET STATUS
	IP ADDRESS	TCP PORT	IP ADDRESS	TCP PORT	
Sock1	10.10.10.10	24	10.10.10.1	24	A
Sock2	10.10.10.10	42	10.10.10.2	42	A
Sock3	10.10.10.10	12	10.10.10.3	12	A
Sock4	10.10.10.10	54	10.10.20.1	54	A
Sock5	10.10.10.10	16	10.10.20.2	16	A
Sock6	10.10.10.10	76	10.10.20.3	17	U

FIG. 10

09770316 * 061201

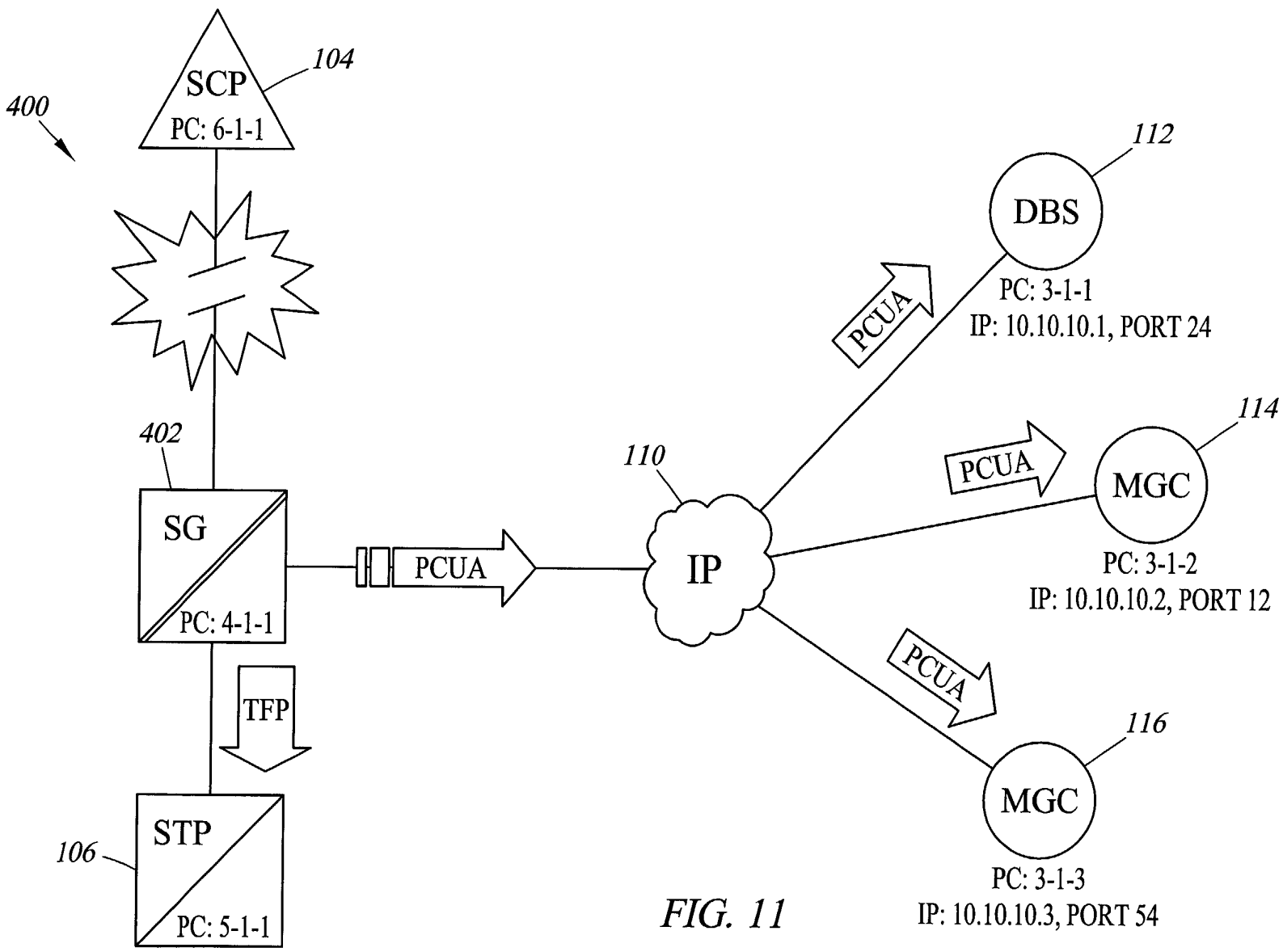

FIG. 11

Title: Methods and Systems for Providing Converged Network Management Functionality in a Gateway Routing Node
Applicant(s): Brendes et al.
Serial No.: 09/770,316

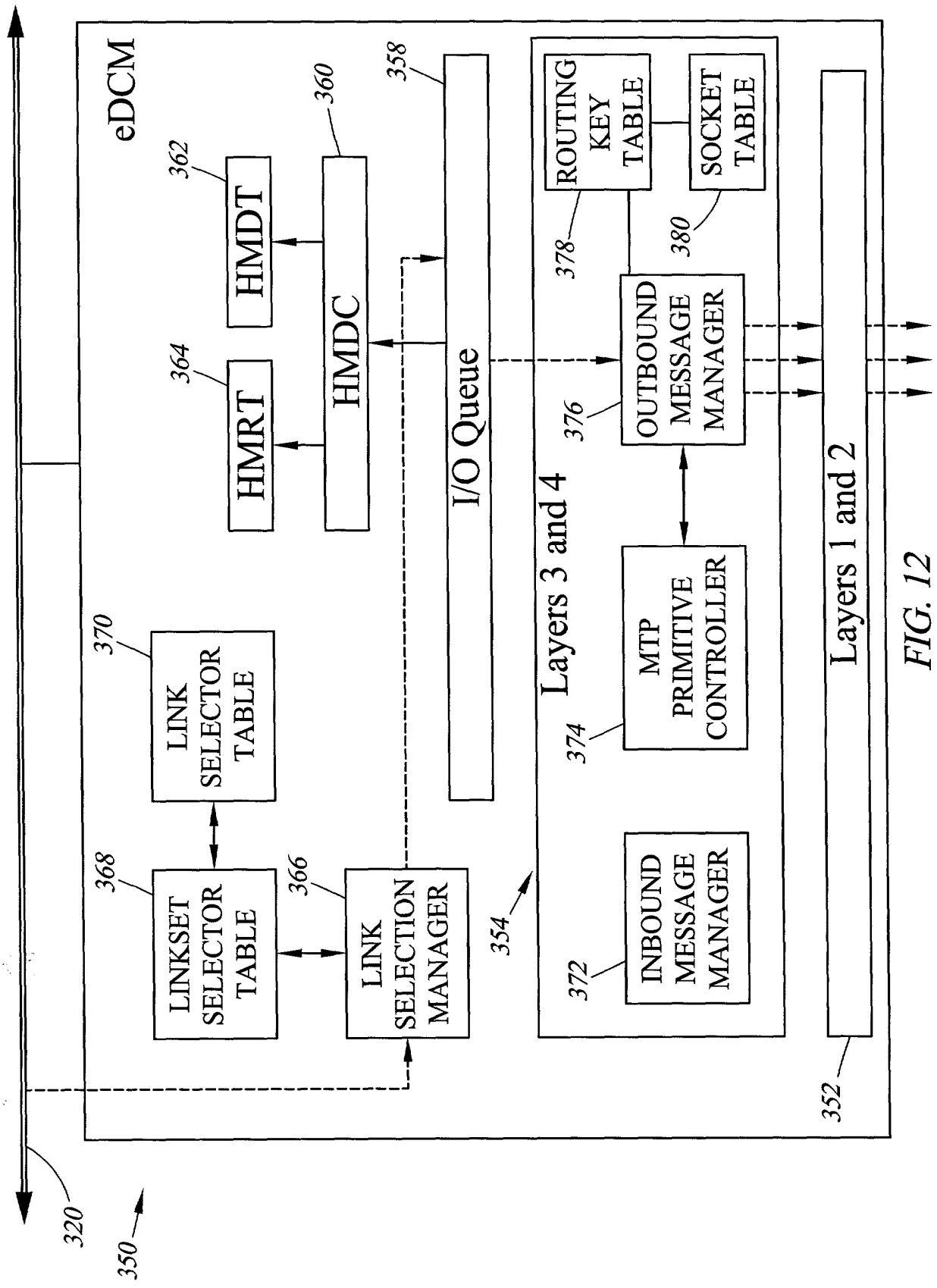
eDCM
HMDT
HMDC
HMRT
I/O Queue
ROUTING KEY TABLE
SOCKET TABLE
OUTBOUND MESSAGE MANAGER
Layers 3 and 4
MTP PRIMITIVE CONTROLLER
INBOUND MESSAGE MANAGER
Layers 1 and 2
LINK SELECTOR TABLE
LINKSET SELECTOR TABLE
LINK SELECTION MANAGER
350
320
352
354
358
360
362
364
366
368
370
372
374
376
378
380

FIG. 12

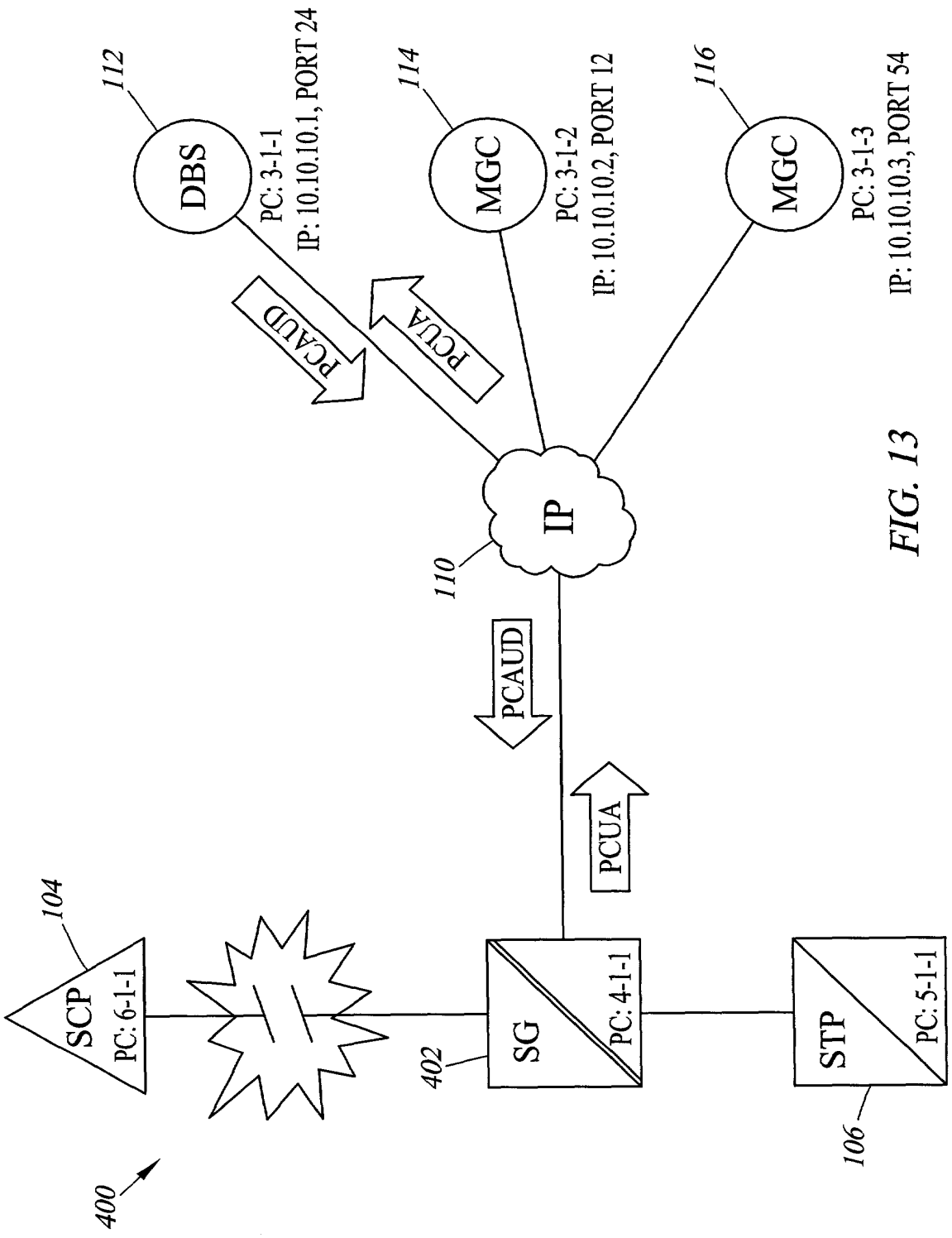
400
SCP
PC: 6-1-1
104
SG
PC: 4-1-1
402
STP
PC: 5-1-1
106
IP
110
PCAUD
PCUA
DBS
PC: 3-1-1
IP: 10.10.10.1, PORT 24
112
MGC
PC: 3-1-2
IP: 10.10.10.2, PORT 12
114
MGC
PC: 3-1-3
IP: 10.10.10.3, PORT 54
116
PCAUD
PCUA

FIG. 13

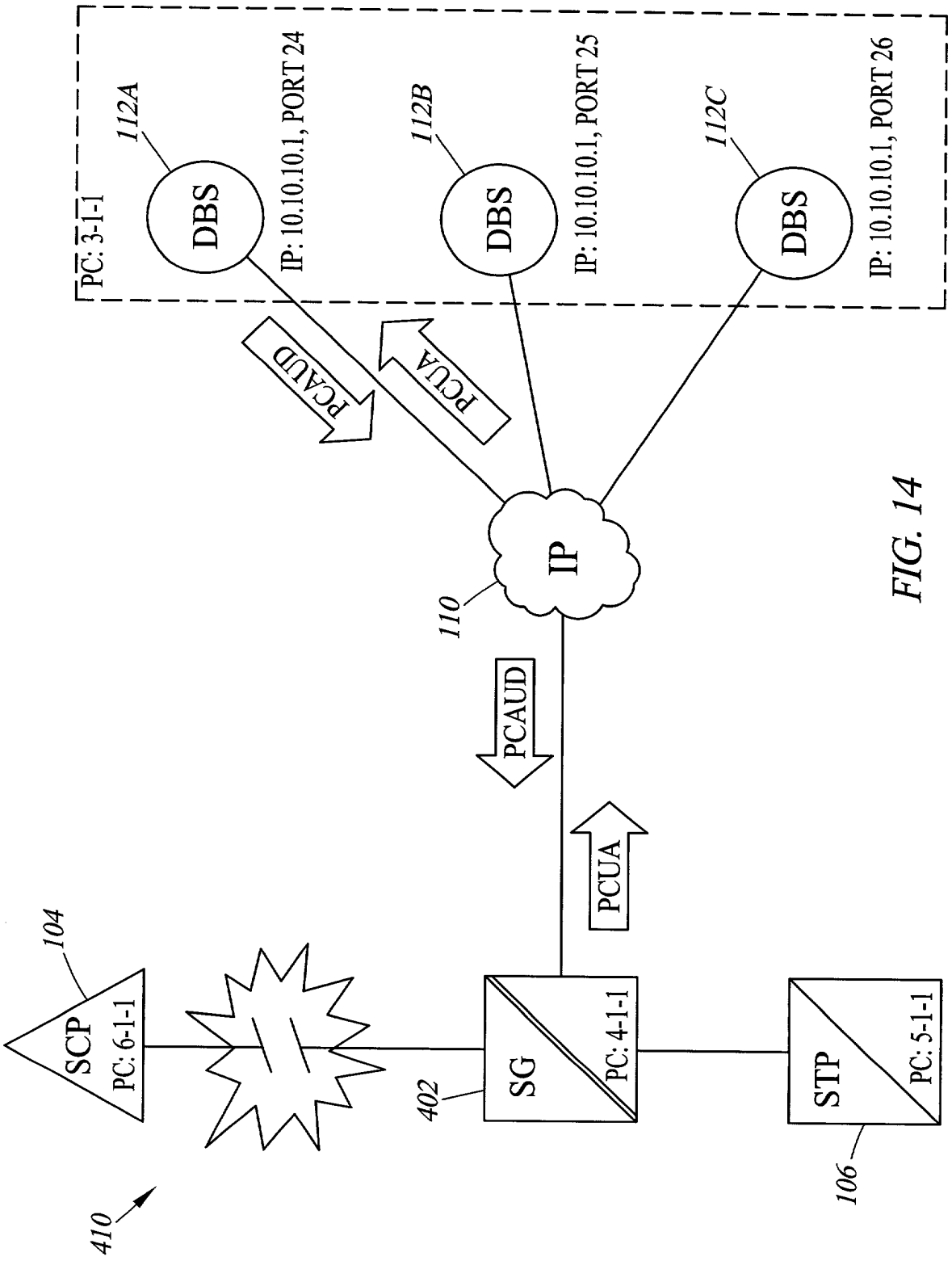
PC: 3-1-1
112A
DBS
IP: 10.10.10.1, PORT 24
112B
DBS
IP: 10.10.10.1, PORT 25
112C
DBS
IP: 10.10.10.1, PORT 26
PCAUD
PCUA
IP
110
PCAUD
PCUA
104
SCP
PC: 6-1-1
402
SG
PC: 4-1-1
STP
PC: 5-1-1
106
410

FIG. 14

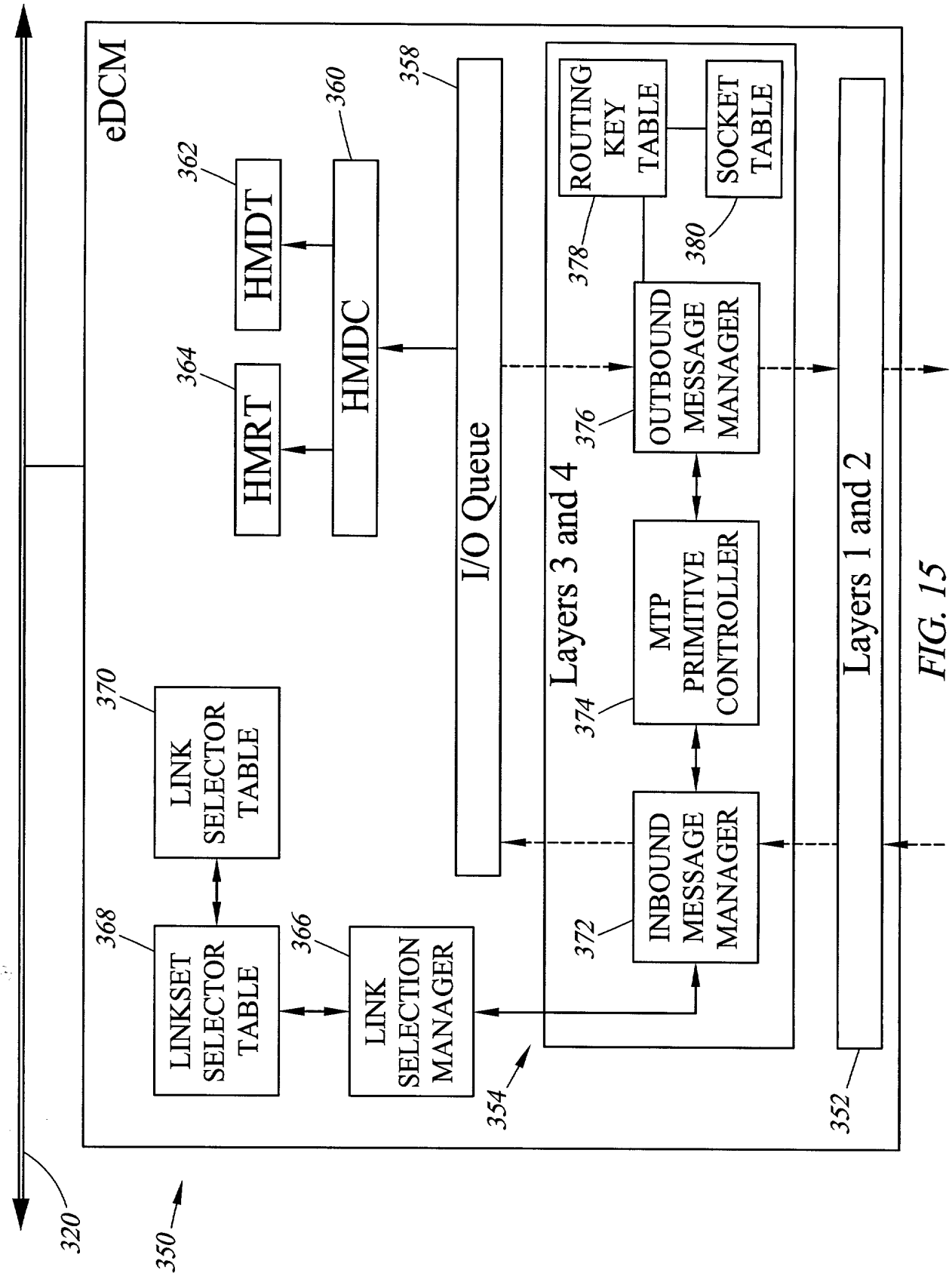
eDCM
HMDT
HMDC
HMRT
I/O Queue
ROUTING KEY TABLE
SOCKET TABLE
OUTBOUND MESSAGE MANAGER
MTP PRIMITIVE CONTROLLER
INBOUND MESSAGE MANAGER
Layers 3 and 4
Layers 1 and 2
LINK SELECTOR TABLE
LINKSET SELECTOR TABLE
LINK SELECTION MANAGER
320
350
352
354
358
360
362
364
366
368
370
372
374
376
378
380

FIG. 15

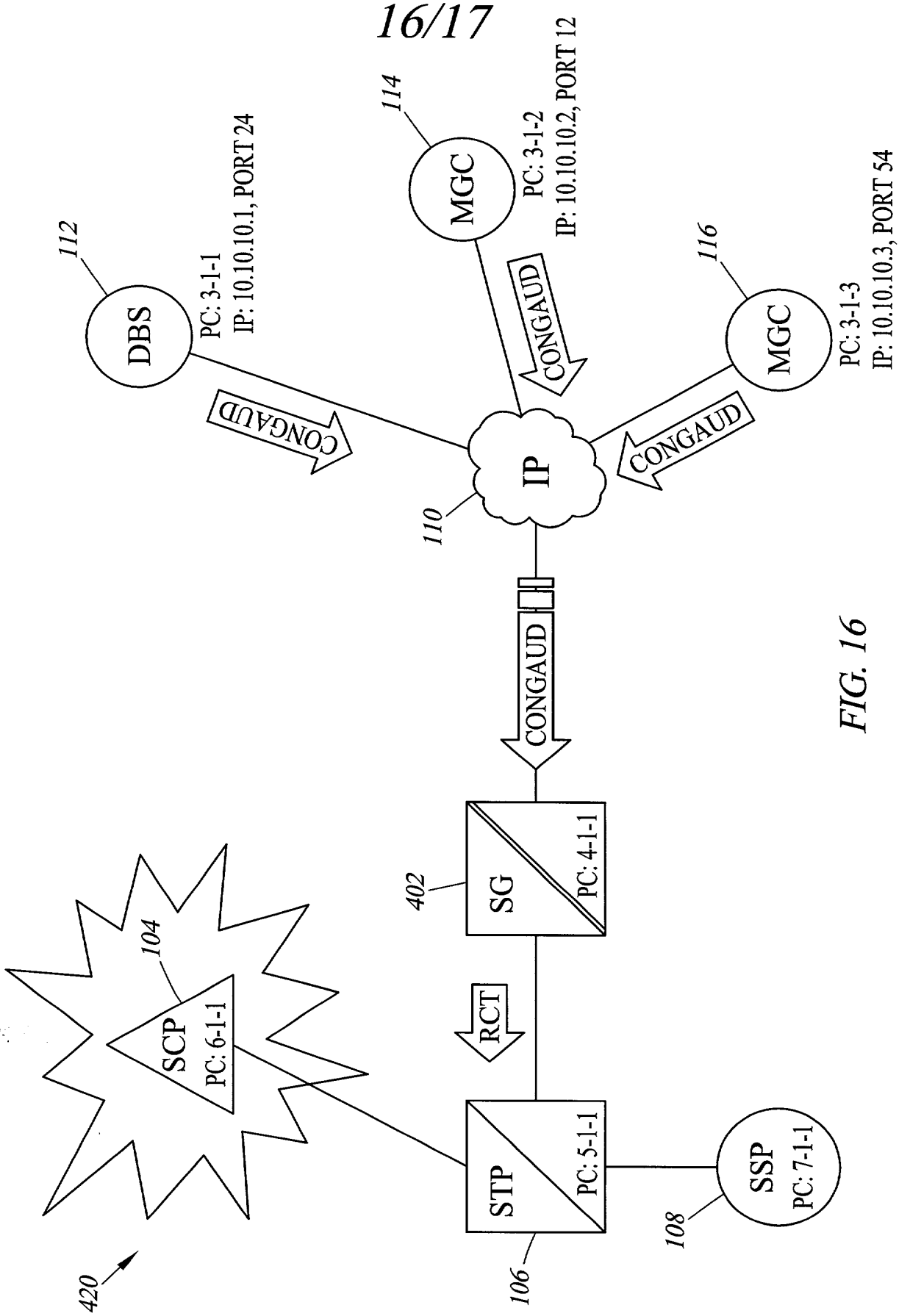

FIG. 16

"0T290" 9TE0Z760

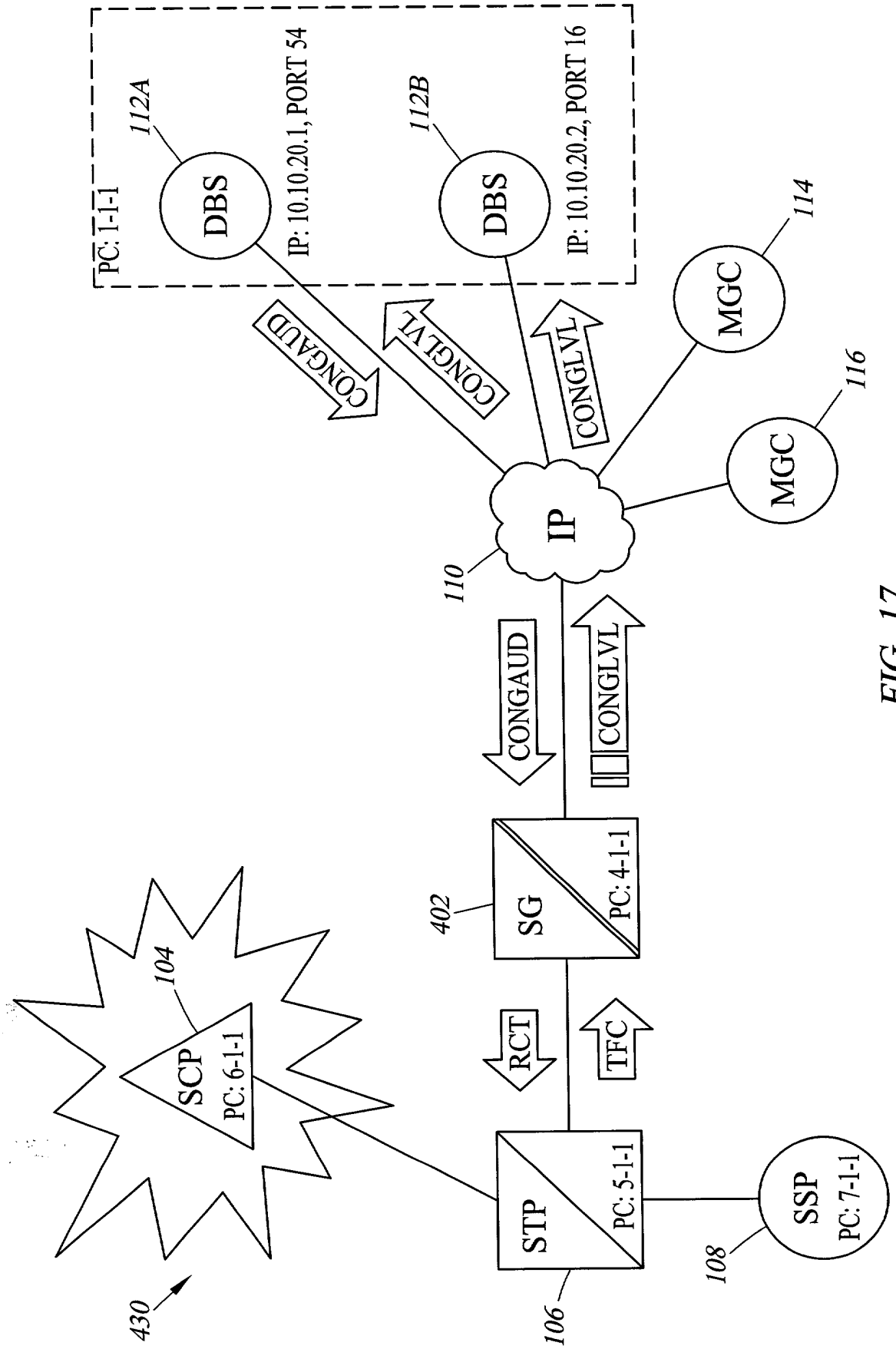
PC: 1-1-1
112A
DBS
IP: 10.10.20.1, PORT 54
112B
DBS
IP: 10.10.20.2, PORT 16
CONGAUD
CONGLVL
CONGLVL
MGC
114
MGC
116
IP
110
CONGAUD
CONGLVL
402
SG
PC: 4-1-1
RCT
TFC
104
SCP
PC: 6-1-1
STP
PC: 5-1-1
SSP
PC: 7-1-1
108
106
430

FIG. 17